SCH-400 SERIES OWNERS MANUAL

SCH-400 Series

OWNERS MANUAL

SAMSUNG

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SAMSUNG

SAMSUNG

SCH-400 Series

CDMA

DIGITAL PORTABLE
CELLULAR TELEPHONE

Owner's Manual

Please read this manual before operating the phone,
and keep it for future reference.

Precautions

Important Information

This manual is based on the production version of the included portable cellular telephone. Software changes may have occurred after this printing.

Safety Precautions

For more detailed safety information, see "Safety" on page 62 through 64.

- Do not use your phone while driving; park the vehicle first.
- Do not use your phone when near medical equipment.
- Do not use your phone at any time while traveling on board a plane.
- Do not use your phone where a blasting operation is in progress.
- Do not use your phone at a refueling point.

FCC/IC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Getting Started

Features

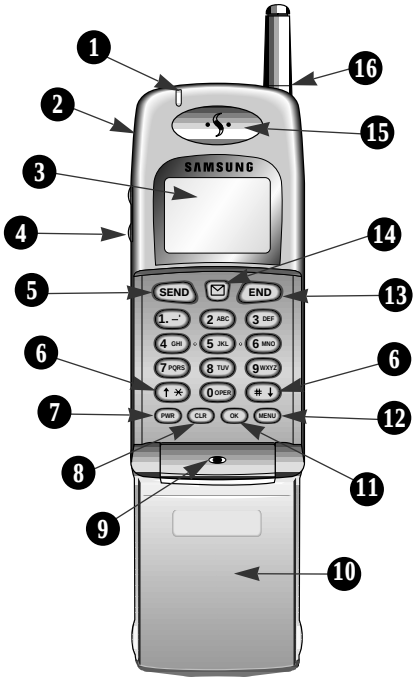
Congratulations on the purchase of your SAMSUNG Phone. Using the latest digital technology, the phone operates in a similar manner to other wireless phones, while providing superior audio quality.

The following options make your phone both fun and easy to use:

- Active Flip (answers calls, hangs up, etc.)
- Phone Book Memory - 79 Locations
- Speed Dialing
- One and Two-touch Turbo Dialing
- Voice Dialing - 20 Locations
- Short Message Services (SMS) and Voicemail
- Ringer Mute During Incoming Call
- 9 Ring Tones, 4 Melodies, Vibration Alert
- Call Logs - 9 Locations Each: Outgoing and Incoming Calls
- Programmable Lock Code
- Pause Dialing
- Alarm
- Dynamic Character Display

Description of Your Phone

Function keys and other controls activate the features of your phone. The following illustration identifies the function keys, controls, and indicators:



(not actual size)

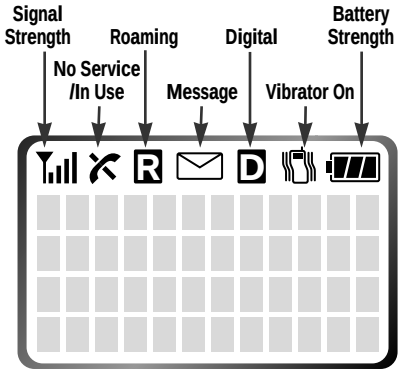
1) Lamp (LED)
2) Headset Jack
3) LCD Screen
4) Volume Control
5) SEND Key
6) Scroll Keys
7) Power Key
8) Clear Key
9) Microphone
10) Flip
11) OK (Store) Key
12) Menu Key
13) End Key
14) Messages Key
15) Earpiece
16) Antenna

Screen Display

This phone features dynamic character sizing, which enables the screen to display from 12 to 16 characters per line. The five-line screen includes four text lines and one icon line, which displays active options and selected menu items.

During conversation, the screen displays the call timer and the name and number of the other party, if available. Active in-use options, such as Mute and Call Waiting, also display during conversation.

The following icons display at power-on:



(not actual size)

Active Flip

The flip can control four functions of your phone.

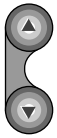
The flip:

- answers an incoming call simply by opening it
- disconnects a call simply by closing it
- can be set to give you the digital voice dialing prompt (see Digital Voice Dialing Setup Options on page 48)
- tums on the backlight when opened (see Backlight Control on page 33)

Key Functions

SEND	Press SEND to: • place a call after dialing the number, • initiate Three-way calling, • access Call Logs.
CLR	Press CLR to: • erase one character at a time while entering names and numbers, • go back one menu level at a time while viewing menu options, Press and hold CLR to: • erase all displayed characters while entering names and numbers, • return to Standby mode while viewing menu options or dialing.
END	Press END to: • end a call, • exit the current menu and return to Standby mode. • mute the ringer during an incoming call.
MENU	Press MENU to: • display the Main Menu, • scroll forward through menus, • enter a pause while entering numbers.
	Press MESSAGES to access messages.
OK	Press OK to: • save menu option settings • quickly store your dialled digits • enter menus • have one-button access to your phone book (from Standby mode)
↑ * # ↓	Press the arrow keys to scroll menu options. Press and hold ↑ * to: • initiate Voice Dialing when the flip is open. Press and hold # ↓ to: • switch between bell and vibrator setting.

Press PWR to turn the phone on and off.



Press the Volume button to:

- adjust voice volume during conversation.
- adjust ring volume in Standby mode,
- scroll Call Logs, Phone Book entries, and menu options.
- mute the ringer during an incoming call.

Status Indicators

Signal Strength

Indicates current signal strength.

No Service

Indicates that the phone is outside a service area and cannot send or receive calls.

Roaming

Displays when the phone is outside the home service area but within the network.

Message

Indicates a voicemail notification (VMN), page, or text message.

Digital

Indicates a Digital mode.

Vibrate

Indicates a Vibrate mode.

Battery Charge

Indicates the battery charge level.

Display Messages

Messages appear on your display at various times. For a listing and explanation these messages, refer to Appendix A.

Battery

Your phone package includes a partially charged rechargeable battery so that you can use the phone immediately after it is activated.

Installing the Battery

To attach the battery to your phone:

1. Hold the battery so that the metal contacts on the base of the battery line up with the metal contacts on the base of the phone.
2. Place the battery on the back of the phone with the top of the battery about a quarter of an inch from the latch.
3. Gently slide the battery toward the top of the phone until it snaps into place.

Removing the Battery

Make sure to turn the power off before removing the battery. Then press the battery release button while sliding the battery out of position.

Dual-Slot Desktop Charger

The Dual-Slot Desktop Charger contains:

- Front compartment for charging the battery while attached to the phone
- Rear compartment for charging the battery alone (not attached to the phone)
- A three colored light for each compartment that indicates the status of the battery charge as follows:
    - Red light to indicate that the battery is charging
    - Green light to indicate that the battery is fully charged
    - A yellow light indicates that the battery is operating at a temperature that is too high or too low, or that the battery is misaligned in the charger. If the light is yellow, check the charger and battery.

Charging the Battery

To charge the battery using the Dual-Slot Desktop Charger:

1. Plug the power cord of the charger into a wall outlet.
2. Select one of the following options:
    - Insert the entire phone with battery attached into the front compartment of the charger.
    - Insert a single battery (alone, not attached to the phone) into the rear compartment of the charger.
    - A single battery in the rear compartment and a phone with battery in the front compartment.

When two batteries are in the charger, the batteries charge simultaneously.

Note: Use only the SAMSUNG-approved Dual-Slot Desktop Charger with your phone by Samsung. Using the wrong charger could damage the battery.

Battery Charge Indicator

The Battery Charge Indicator displays in the upper right corner of the screen and indicates three levels of charge. Three solid bars indicate a fully charged battery. When the battery charge level is low or empty, a clear Battery Charge Indicator (no bars displayed) flashes on the screen.

Tips on Battery Life

The operation time of the batteries may be shorter than specified in the following cases:

- Battery standby time is affected by network conditions.
- If your phone is out of a service area for an extended time, it continues to search for service and thus reduces battery standby time.
- Answering calls also consumes as much power as required when making calls.
- Your Lithium Ion battery will gradually wear out (like all batteries) and need to be replaced.
- If your battery life is shorten to half of the original specified time, you should purchase a new one.

Caring for the Battery

Use only SAMSUNG-approved batteries, Desktop and Travel chargers. These chargers maximize battery life and performance. Using other batteries or chargers may invalidate your warranty and may damage the battery.

For proper battery care, please follow these guidelines:

- To avoid damage, charge the battery in temperatures that range from 32˚F to 104˚F (O˚C to 40˚C).
- Do not use the battery charger in direct sunlight or in high humidity areas (such as a bathroom).
- Never dispose of the battery by incineration (fire).
- Keep the metal contacts at the battery base clean.
- Do not attempt to disassemble or short-circuit the battery, as injuries or burns may result.
- Replace the battery when it no longer provides acceptable performance.
- Do not store the battery in high-temperature areas for a long time.
- Do not allow metal objects or liquids to contact or short-circuit the battery terminals, as injuries or burns may result.

Battery Disposal and Recycling

Please be aware of the following guidelines when disposing of or recycling the battery:

- Do not dispose of the battery in a fire; the cell may explode. Check the regulations in your area for special disposal instructions.
- Do not open or puncture the battery; the released electrolyte is corrosive and may cause damage to the eyes and skin. This substance also can be toxic if swallowed.
- Charge the battery in accordance with the instructions specified in this manual.

Call Quality

For optimum call quality with your phone, please follow these guidelines:

- Fully extend the antenna. While it may be possible to place calls with the antenna retracted, the phone operates best with the antenna fully extended.
- Hold the phone as you would hold any other telephone handset. Speak directly into the microphone, and position the antenna up and over your shoulder while talking.
- Do not hold the antenna while using the phone, as this may affect call quality.

Table 1: Phone and Battery Specifications

Phone Type:	Dual Mode CDMA/AMPS 800MHz		
Graphic LCD:	5 Lines (4 Text Lines, 1 Icon Line)		
Battery Type:	Standard :	1000 mAh Lithium Ion	
	Extended :	1600 mAh Lithium Ion	
	Ultra-Extended :	2700 mAh Lithium Ion	
Phone with:	Standard Battery	Extended Battery	Ultra-Extended Battery
Dimensions (HXWXD):	114X51X24 mm	114X51X28 mm	114X51X40.5 mm
Weight:	140g/4.9 oz	157g/5.5 oz	184g/6.5 oz

Table 2: Talk and Standby Times

Mode	Standard Battery	Extended Battery	Ultra-Extended
Talk CDMA	up to 150 mins	up to 270 mins	up to 390 mins
Talk AMPS	up to 65 mins	up to 120 mins	up to 180 mins
Standby CDMA	up to 35 hours	up to 55 hours	up to 75 hours
Standby AMPS	up to 8 hours	up to 12 hours	up to 19 hours

Note: Talk and Standby times are longer in CDMA mode.

* Your talk and standby times could vary substantially and are related to network signal coverage. Coverage will vary due to a number of circumstances:
  - fringe areas with poor network coverage
  - structural interference due to dense urban areas
  - geographical obstacles such as mountains and canyons

Basic Operations

Basic Operations of Your Phone

Turn On/Off	Press and hold PWR.
Menu Scrolling	Press MENU, then ↑* or #↓, or .
Make Calls	Enter the number, and then press SEND.
Correct Mistakes	Press CLR.
Redial Call	Press SEND twice.
End Call	Press END, or close the flip.
Answer Call	Press SEND, or open the flip.
Save Numbers	Enter phone number, press OK, and then follow the screen prompts.
Outgoing Call	Press MENU, 1. –', 1. –', to review the last 9 outgoing calls.
Incoming Call	Press MENU, 1. –', 2 ABC, to review the last 9 incoming calls.
Name Search	Press OK in Standby Mode.
One-touch Voicemail	Press and hold in Standby mode.
Adjust Ring Volume	Press in Standby mode.
Mute the Ringer	Press during an incoming call.

Turning Your Phone On and Off

Turning On

To turn on your phone, press and hold PWR. The red light flashes, an alert sounds. The display updates to reflect the following conditions:

- When the system locates service, the greeting message displays. You can now place and receive calls.
- If the system cannot locate service, only the greeting message displays. In this case, you cannot place and receive calls. Turn off the phone, and then try again later when service is available.
- If your phone is locked, "Locked" displays. Press MENU, and enter the four-digit lock code to unlock the phone.

Turning Off

To turn off your phone, press and hold PWR. When your power is off, nothing displays on the screen.

Modes of Operation

Standby Mode

When your phone is on but no call is in progress, the phone is in Standby Mode. The Main Menu and all its options are accessed from Standby Mode. See Table 3 on page 24, for a structure of the Main Menu.

Conversation Mode

When a call is in progress, the phone is in conversation mode, and the Conversation Mode menus can be accessed by pressing MENU. See page 22 for a list of these menu items.

Placing Calls

Placing a Call

To place a call:

1. Press and hold PWR to power on your phone. An active screen display indicates that the phone is on. (No dial tone sounds.)
2. Enter the phone number, up to 32 digits, by pressing the digit keys. The phone number displays on the screen.
3. Press SEND. The phone places the call to the entered phone number.

Priority Dialing

You can place calls to one of the seven priority numbers that are in your priority number list even if your phone is locked, or outgoing calls are restricted.

Prepend Dialing

The prepend option enables you to add up to three digits, such as area codes and network feature activation codes, to a phone number of up to 10 digits. You can prepend any existing entry in the Phone Book or Call Logs.

To prepend existing phone numbers in the Phone Book or Call Logs:

1. Access the phone number entry.
2. When the phone number displays, press MENU to display options.
3. Press 3 DEF for prepend.
4. Enter the area code or feature code.
5. Press SEND to call the number.

Pause Dialing

You can insert one or more pauses between the DTMF tones. You can enter up to 32 digits, including the pause.

1. Enter the phone number of the service you wish to access.
2. Press MENU to insert a pause. The pause indication "p" displays after the phone number.
3. Enter the number to be dialed in DTMF.
4. Press SEND. When the service answers, the announcement tells you to enter your number.
5. Press SEND again to transmit DTMF number.

Note: If you insert more than one pause, press SEND after each pause to transmit the next series of numbers.

Correcting a Misdialed Number

To correct a misdialed number:

- Press CLR to erase the digit, and then enter the correct digit.
- Press and hold CLR to erase the entire entry, and then enter the correct phone number.

Receiving Calls

Answering a Call

To answer an incoming call, press SEND, or open the flip.

Ending a Call

To end a call, press END, or close the flip. The call time displays, along with the name/number of the other party (if available). The phone returns to Standby mode automatically.

Call Waiting

Call Waiting enables you to receive a second call during conversation. When a Call Waiting call comes in, the incoming call alert sounds, when set, and a text notification displays.
Contact your service provider to activate Call Waiting.

To answer a Call Waiting call:

1. To answer the call, press SEND. The phone connects the calling party, and places the current party on hold.
2. Press SEND again to switch between the two parties.

Three-Way Calling

Three-Way Calling enables you to conduct conference calls with two separate parties at the same time. You are billed airtime for each outgoing call separately. Contact your service provider to activate Three-Way Calling.

To place a Three-Way Call:

1. During conversation, enter the phone number for the third party, and then press SEND again. The phone places the other party on hold.
2. When the third party answers, press SEND again to connect with the original party.

Call Forwarding

This phone provides the option of forwarding incoming calls to another phone number, even while your phone is off. Activating Call Forwarding does not affect outgoing calls made from this phone.
Contact your service provider to activate Call Forwarding.

The Menu

Menu Organization

Main Menu

The Main Menu is accessed from the Standby mode by pressing (MENU). The Main Menu contains 7 primary options, many of which contain sub-menus with more specific options. Table 3 on page 24 contains a listing of the Main Menu and its submenus.

Conversation Menu

The conversation menu is accessed when you are on a call by pressing (MENU). The following options are available in Conversation mode:

1. Calls	4. Silent Key	6. Send Tel #
2. Phone Book	5. Version	7. My phone #
3. Mute/Unmute	6. Send Tel #	SND. Send DTMF

Menu Navigation

To access a Main or Conversation mode menu option, press (MENU), and then press the associated digit key to select the desired option.
As an alternative to pressing the digit keys, press the scroll keys ((↑ *), (# ↓), or ( )) to scan menu options.
Pressing the scroll keys highlights each option in sequence. Press (OK) to select the highlighted option.

Conversation Menu Options

Calls ((MENU) (1. –'))

The Call Logs store up to nine incoming calls and nine outgoing calls. Each log stores the name and phone number (if available), as well as the date/time stamp. For details see Call Options on page 26.

Phone Book ((MENU) (2 ABC))

You can use the phone book features during conversation. For details see Phone Book on page 40~45.

Mute/Unmute ((MENU) (3 DEF))

This feature allows you to mute the phone's microphone, so that the other party cannot hear you or other sounds on your end.

Silent key ((MENU) (4 GHI))

You can enter a number during conversation without transmitting the beep tones to the other party.

Version ((MENU) (5 JKL))

You can view the software and hardware version of your phone during conversation.

Send Tel # ((MENU) (6 MNO))

When leaving a message on someone else's pager, you may be asked to enter your phone number. You can conveniently transmit your number to the pager by pressing two keys instead of the entire number.

1. When the pager memo asks you to enter your phone number after calling the paging system, press (MENU).
2. Press (6 MNO) on the keypad. The message SENDING DTMF blinks, and the phone displays and dials your phone number automatically.

My phone # ((MENU) (7 PQRS))

You can check your own phone number during conversation. For details My phone #, see page 42.

Send DTMF

You can store personal numbers (such as ID codes, passwords, credit card numbers, etc.) in memory. This enables you to transmit them very quickly without having to input all the digits in each transaction. Begin by storing each of your credit card numbers (or ID codes, etc.) in one of the phone's memory locations in the same way you store a phone number in memory. When making a business transaction by phone, the service will ask you to enter the code. To do so, follow these steps:

1. Press (CLR), then (OK).
2. Select an entry where the appropriate number is stored. The number displays on the screen.
3. Press (OK) to select an entry.
4. Press (MENU).
5. Press (SEND).

Table 3: Main Menu Structure

Main Menu Item	Menu Level 1	Menu Level 2
1. Calls ➪	1. Outgoing	
	2. Incoming	
	3. Erase Logs ➪	1. Outgoing
		2. Incoming
		3. All
	4. Air Time ➪	1. Last Call
		2. Total
		3. Erase Total
		4. Life Time
2. Phone Book ➪	1. Find Name	
	2. Add Entry	
	3. Find Entry	
3. Sounds ➪	1. Ring ➪	1. Ring Vol
		2. Ring Type
		3. Ring Tone
	2. Key Volume	
	3. Alerts ➪	1. MinuteBeep
		2. SVC Alert
		3. Connect
		4. Disconnect
	4. Alarm ➪	1. Set
		2. Release
	5. Diff. Ring ➪	1. Caller 1
		2. Caller 2
		3. Caller 3
		4. Caller 4
		5. Caller 5
	6. PwrupChime	
4. Display ➪	1. Backlight	
	2. Greeting	
	3. My Phone #	
	4. Language	
	5. Version	

Main Menu Item	Menu Level 1	Menu Level 2
5. Voice Dial ➪	1. Record	
	2. Rev/Erase	
	3. Erase All	
	4. Set Active	
6. Setup ➪	1. Auto Retry	
	2. AutoAnswer	
	3. AutoHyphen	
	4. Anykey Ans	
	5. ToneLength	
	6. Set Time	
	7. Set NAM	
	8. System Sel ➪	1. A Only
		2. B Only
		3. Standard
		4. Home Only
	0. AnalogCall	
0. Security ➪	1. Lock	
	2. Restrict ➪	1. Phone Book
		2. Incoming
		3. Outgoing
	3. Lock Code	
	4. Priority #	1. <Entry 1>
		2. <Entry 2>
		3. <Entry 3>
		4. <Entry 4>
		5. <Entry 5>
		6. <Entry 6>
		7. <Entry 7>
	5. PIN ➪	1. Send PIN
		2. PIN Code
	6. Clr Memory	
	7. Hide My #	
	0. ResetPhone	

Calls Options

Tracking Calls Through Call Logs

The Call Logs store up to nine incoming calls and nine outgoing calls. Each log stores the name and phone number (if available), as well as the date/time stamp. In case of duplicate entries back to back, the system consolidates those entries and stores only the most recent call from the same phone number.

To review call logs:

1. Press MENU to display the Main Menu.
2. Press 1. –' for Calls.
3. Press the associated digit key to select an option:
   - Press 1. –' for Outgoing calls.
   - Press 2 ABC for Incoming calls.
4. When the list of calls displays, press the scroll keys to select an entry to view, and then press OK (or the associated digit key) to view the date/time stamp for the selected entry. If there is a Phone Book match, the name displays. If there is not a Phone Book match, only the phone number displays.
5. Press MENU to display options:
   - Press 1. –' for Talk.
   - Press 2 ABC for Show Entry (or Store if the phone number is not currently stored in the Phone Book).
   - Press 3 DEF for Prepend, and then add an area code or feature code to the number before calling or saving the number.
6. Press CLR to exit the Call Logs and return to the previous screen.

Note: If your phone is not powered off by using the PWR key, e.g. by detaching the battery, etc., your outgoing call logs may be lost or may not be stored normally.

Erasing Call Logs

You can erase phone numbers stored in the Call Logs.

To erase call logs:

1. Press MENU to display the Main Menu.
2. Press 1. –' for Calls.
3. Press 3 DEF for Erase Logs. Additional options display.
4. Press the associated digit key to select one of the following context-specific options:
   - Press 1. –' for Outgoing calls.
   - Press 2 ABC for Incoming calls.
   - Press 3 DEF for All calls.
5. When the screen prompts for confirmation, press OK to confirm erasing the call logs, or press CLR to cancel the operation.

Reviewing Airtime

You can review the airtime of the most recent call, total airtime for all calls since the last reset action, and permanently total airtime for all calls since the manufactured time.

To review airtime:

1. Press MENU to display the Main Menu.
2. Press 1. –' for Calls.
3. Press 4 GHI for Air Time.
4. Press the associated digit key to display airtime for the selected calls:
   - Press 1. –' for Last Call.
   - Press 2 ABC for Total.
   - Press 4 GHI for Life Time.
5. Press CLR to return to the previous screen.

Sounds Options

Your phone receives incoming calls and provides call notification only when it is on. Notification type depends on the user setting done in the "Sounds Menu".

Ring Volume

You can set ring volume in Standby mode from the Main Menu or by pressing the Volume buttons on the side of the phone. During an incoming call, press END or to mute the ringer.

To adjust ring volume in Standby mode:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 1. –' for Ring.
4. Press 1. –' for Ring Vol.
5. Press the scroll keys to change the volume setting and listen to the ring.
6. When the desired volume level displays, press OK to save the setting.

Note: You can also adjust ringer volume from standby mode simply by pressing the volume keys. This causes the ringer to sound. Press the volume key to turn up, and the volume key to turn down. Simply stop pushing when you reach your desired ringer volume.

Ring Type

You can choose from four types of rings to signal an incoming call: a bell, a lamp, a vibrator, or a bell+vibrator.

To set ring type:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 1. –' for Ring.
4. Press 2 ABC for Ring Type.
5. Press the scroll keys to audition ring types.
6. When the desired option displays, press OK to save the setting.

Note: You can quickly change the ring type from bell to vibrate (and vice versa) by pressing and holding the # ↓ key.

Ring Tone

When you select BELL as your ring type, you can set ring tone from nine tones and four melodies.

To set ring tone:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 1. –' for Ring.
4. Press 3 DEF for Ring Tone.
5. Press the scroll keys to audition tones. Each tone sounds as you scroll the options. (There are nine bell tones and four melodies.)
6. When the desired option displays, press OK to save the setting.

Key Beep

The Keys on your phone beep when they are pressed. To set key beep volume:

l. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 2 ABC for Key Volume.
4. Press the scroll keys to change the volume setting or to silence beeps.
5. When the desired option displays, press OK to save the setting.

Alerts

You can set alerts to turn the Minute Beep tone, Service Area alert tone, Connect tone, and Disconnect tone, on and off. The Minute Beep indicates each minute on your call. The Service Area alert indicates when you are out of a service area or when you return to a service area.
The Connect tone indicates when your outgoing call is connected to the system. The Disconnect tone indicates when any call is released or dropped.

To select alert options:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 3 DEF for Alerts.
4. Press the associated digit key to select an option:
   - Press 1. –' for Minute Beep.
   - Press 2 ABC for Service Alert.
   - Press 3 DEF for Connect tone.
   - Press 4 GHI for Disconnect tone.
5. Press the scroll keys to toggle between On/Off.
6. When the desired option displays, press OK to save the setting

Alarm

Note: The time must be set (MENU 6 MNO 6 MNO) to sound an alarm at a specific hour and minute. If the time is not set, the alarm will act as a count-down timer of up to 99 minutes maximum.

To set alarm:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 4 GHI for Alarm.
4. Press 1. –' for Set.
5. Press ↑ * or # ↓ to choose the alarm mode.
   - One Time: Alarm will be activated one time.
   - Daily: Alarm will be activated on a specified time every day unless you release the alarm feature.
6. Press OK to save the alarm mode.
7. Press ↑ * or # ↓ to choose AM or PM.
8. Press OK to save.
9. Enter the alarm time by pressing the digit keys. To correct a digit entered incorrectly or to change the alarm date, press ↑ * or # ↓ to scroll and then enter the desired digit.
   - If the current time is already set, you can specify the alarm time.
   - If the current time is not set, enter the time duration of the alarm in minutes.
10. Press OK to save the setting. At the set time, the alert sounds and the '-ALARM-' is blinked.
11. To cancel alarm at any time, access the Alarm option (step 1, 2 and 3). Press 2 ABC to release the alarm setting, and then press OK to confirm the action.

Differential Ring

The Differential Ring option enables you to activate a unique ring to signal an incoming call from a number of your choice.

To set Differential ring:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 5 JKL for Differential Ring.
4. Press the corresponding digit key (1~5) to select the desired storage location.
5. Enter the phone number of the desired party by pressing the digit keys.
6. To store the phone number, press OK.
7. Press the scroll keys to audition the list of ring tones and melody tones. Each tone sounds as you scroll the options.
8. When the desired option displays, press OK to save the setting.

Power-up Chime

You can turn the power-up sound on or off from the Main Menu.

To turn the power-up sound on or off:

1. Press MENU to display the Main Menu.
2. Press 3 DEF for Sounds.
3. Press 6 MNO for power-up Chime.
4. Press the scroll keys to select on or off.
5. Press OK to save the setting.

Display Options

Your phone provides several options for the LCD.

Backlight Control

To select backlight options:

1. Press MENU to display the Main Menu
2. Press 4 GHI for Display.
3. Press 1. –' for Backlight.
4. Press the scroll keys to scan menu options: 10 Seconds (after last keypress), 30 Seconds (after last keypress), Flip Open (always on when flip is open), Off.
5. When the desired option displays, press OK to save the setting.

Note: When the phone is attached to the Hands-free Car Kit, the backlight remains on, unless the phone is off.

Personal Greeting

You can create a 12-character personal greeting that displays at power-on and in Standby mode.

To create a personal greeting:

1. Press MENU to display the Main Menu.
2. Press 4 GHI for Display.
3. Press 2 ABC for Greeting.
4. Enter your personal greeting by pressing the alphanumeric keys on the keypad.
5. Press OK to save the setting.

Selecting Display Language

You can select the display language on your phone.

To set the language:

1. Press MENU to display the Main Menu.
2. Press 4 GHI for Display.
3. Press 4 GHI for Language.
4. Press the scroll keys to toggle between Spanish/English.
5. Press OK to save the setting.

Version Display*

You can view the software and hardware version of your phone during conversation or in Standby mode.

To view the versions in Standby mode:

1. Press MENU to display the Main Menu.
2. Press 4 GHI for Display.
3. Press 5 JKL for Version.
4. Press CLR to return to the previous screen.

To view the version in Conversation mode:

- Press MENU, 5 JKL.

*This feature is helpful if you have to call customer care.

Setup Options

Your phone contains many setup features that make communication easier and more efficient. Using them saves time and makes your phone even more fun to use.

To set Setup options:

1. Press MENU to display the Main Menu.
2. Press 6 MNO for Setup.
3. Press the corresponding digit key to select the desired option:
   - Press 1. –' for Automatic Retry.
   - Press 2 ABC for Automatic Answer.
   - Press 3 DEF for Automatic Hyphenation.
   - Press 4 GHI for Any Key Answer.
   - Press 5 JKL for Tone Length.
   - Press 6 MNO for Set Time.
   - Press 7 PQRS for Set NAM.
   - Press 8 TUV for System Selection.
   - Press 0 OPER for Analog Call.
4. For all options except Set Time, use the scroll keys to choose the desired option, and press OK to save. For Set Time see "Setting Current Time" on page 36.
5. All the Setup options are further explained in the following paragraphs.

Automatic Retry

When you place a call and the call does not connect, your phone continues to retry the call to the entered phone number for up to two minutes.

Automatic Answer

When a call comes in, your phone will answer the call automatically after 2 rings. This feature does not work if you have chosen Vibrate or Lamp as your ring type.

Automatic Hyphenation

Automatic Hyphenation hyphenates numbers as follows:

- 123-456-7890

Digits following a pause are not hyphenated.

Any Key Answer

Activate Any Key Answer to answer incoming calls by pressing any key on the keypad, except PWR, END and (volume keys).

Tone Length

Some phone systems can recognize only longer tones. This means you may have to change the Tone Length to LONG, for some calls. Normally the Tone Length should be set to SHORT.

Setting Current Time

You can set the time and date on your phone.

To set the time:

1. Press MENU to display the Main Menu.
2. Press 6 MNO for Setup.
3. Press 6 MNO for Set Time.
4. Press ↑ * or # ↓ to choose AM or PM.
   Press OK to save. The current time (if set) displays.
5. Enter the month, day, hour, and minute using two digits for each field. Enter four digits for the year. If you don't input the time or input an invalid time, the message "Invalid Time" displays.
6. Press OK to set the time.

NAM Selection

When phone number is activated, the NAM (Number Assignment Module) enables you to subscribe to one or more service networks. The NAM selection feature allows you to choose which network you currently desire to use.

To set NAM Selection:

1. Press MENU to display the Main Menu.
2. Press 6 MNO for Setup.
3. Press 7 PQRS for Set NAM.
4. Select NAM-1 or NAM-2 by pressing the scroll keys.
5. Press OK to save the setting.

System Selection

The system selection feature of your phone enables you to choose which of the system providers you will use.

To select system:

1. Press MENU to display the Main Menu.
2. Press 6 MNO for Setup.
3. Press 8 TUV for System Selection.
4. Press the scroll keys to select the desired system mode. Choices are Standard, Home Only, A Only, and B Only.
5. When the desired option displays, press OK to save the selection.

Analog Call Option

In the event that you cannot place a call in Digital mode due to weak coverage, this feature allows you to try placing the call in Analog mode.

To make a call in Analog mode:

1. Press MENU to display the Main Menu.
2. Press 6 MNO for Setup.
3. Press 0 OPER for Analog Call.
4. Press OK to set to Analog mode, or press CLR to return to the previous screen.
5. If you end the Analog call or do not make a call within 5 minutes, your phone returns to Digital mode automatically.

Phone Book

Overview of the Phone Book

The Phone Book provides the following features:

- 79 memory locations (plus 20 voice dial numbers)
- Optional name entry
- Text notification when overwriting or erasing entries
- Automatic scrolling to the next available location, with manual location selection option
- Adding/Editing entries by name or location
- Direct access of entries by name or location
- Searching entries by name or location
- Speed Dialing
- One and Two-touch Turbo Dialing
- Placing a call to the displayed Phone Book entry
- One and two-touch Secret number calling
- Prepending phone numbers
- Name/Number display when entry includes name
- One-button (OK) access to the Phone Book.

Storing Phone Numbers

Storing Phone Numbers/Names

To store phone numbers/names:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Press 2 ABC for Add Entry. The screen prompts for a new phone number.
4. Enter the phone number by pressing the digit keys.
5. To store the phone number, press OK. The first available location displays.
6. To accept the displayed location, press OK. To select another location, press the scroll keys to scroll to the desired location, and then press OK.
7. To include a name with the phone number entry, respond to the screen prompt by entering the name.
8. After entering the name, press OK.

Storing Phone Numbers at Call End

To store a phone number following conversation:

1. Press END to end the call. The call time and the phone number display for a short time.
2. To store the phone number, press OK (before the number disappears from the display). The first available location displays.
3. To finish this process, follow above-mentioned steps (step 6, 7 and 8).

Viewing Stored Entries

Finding Entries by Location

To find an entry by location:

1. Press MENU to display the Main Menu
2. Press 2 ABC for Phone Book.
3. Press 3 DEF for Find Entry. The phone book entries display in numerical order, and the screen prompts for a location.
4. Enter the location by pressing the associated digit key, or press the scroll keys to scroll to the desired location, and then press OK to display the selected entry.
5. When the desired entry displays, press SEND to place a call, or MENU 2 ABC to edit the entry.

Finding Entries by Name

You can locate Phone Book entries quickly when the phone is in Standby mode: Press OK to access the Phone Book in one step and then press the scroll keys to scan entries.

To find Phone Book entries from the Main Menu;

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Press 1. – ' for Find Name. Stored names display in an alphabetical list.
4. Press the scroll keys to scroll to the desired name. You can also enter the first letter of the name by pressing the associated alphanumeric key. Using this method, the phone searches for the names in the list beginning with that letter, and then displays the first name in that section of the list. If desired, you can also enter the second letter in the name by pressing the associated alphanumeric key.
5. When the desired entry displays, press SEND to place a call, or MENU 2 ABC to edit the entry.

Displaying Your Phone Number

You can check your own phone number.

To display your phone number:

1. Press MENU to display the Main Menu.
2. Press 4 GHI for Display.
3. Press 3 DEF for My Phone Number. The phone number of your phone displays. If you have more than one phone number, press the scroll keys to check the next number.
4. Press OK or CLR to return to the previous screen.

To view your phone number in Conversation mode:

- Press MENU 7 PQRS.

Dialing from the Phone Book

Dialing By Memory Location

Your phone enables you to place calls quickly by pressing and holding the associated digit key(s) for the Phone Book memory location of the phone number you are calling.

The following table outlines dialing shortcuts:

Table 4: Memory Dialing Shortcuts

ACTIVITY	SHORTCUT
One-touch: Turbo Dialing	Press and hold the associated digit key for the location (available in locations 1-9).
Two-touch: Turbo Dialing	Press the first associated digit key, and then press and hold the second digit key (available in locations 10-79).
Speed Dialing:	Press the associated digit key(s), and then press the SEND key. (available in locations 1-79)

Editing Phone Book Entries

To edit a Phone Book entry:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Access the desired entry using one of the search methods described under "Viewing Stored Entries" on page 41.
4. When the desired entry displays, press MENU for options.
5. Press 2 ABC for Edit. Additional options display.
6. Press the associated digit key to select an option:
   - Press 1. – for Phone #. The phone number displays.

     Enter the new phone number by pressing the digit keys.

     Press OK to save the new number.
   - Press 2 ABC for Name. The name displays. Enter the new name by pressing the alphanumeric keys. Press OK to save the new name.
   - Press 3 DEF for Entry #. The Phone Book location number displays. Press the scroll keys to scroll to the desired location, and then press OK to save the new location.

Erasing Phone Book Entries

To erase Phone Book entries:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Access the desired entry using one of the search methods described under "Viewing Stored Entries" on page 41.
4. When the desired entry displays, press MENU for options.
5. Press 4 GHI for Erase. The screen prompts for confirmation.
6. Press OK to erase the displayed entry. The "Erased" notification displays, along with the name, number, and location.

Storing Secret Numbers

You can select the Secret option to prevent dialed phone numbers from displaying on the screen.

To store a secret number in the Phone Book:

1. Press MENU to display the Main Menu.
2. Press 2 ABC for Phone Book.
3. Store the phone number as described under "Storing Phone Numbers" on page 40, or access an existing entry as described under "Viewing Stored Entries" on page 41.
4. When the phone number displays, press MENU for options.
5. Press 2 ABC for Edit. Additional options display.
6. Press 4 GHI for Secret.
7. Press the scroll keys to toggle between No/Yes.
8. Press OK to save the setting.

Digital Voice Dial

Digital Voice Dialing

Your phone features ART Smartspeak®, the new Voice Dialing system from Advanced Recognition Technology. You can call up to 20 stored entries by speaking the name into the microphone.

Note: This feature works only if your phone is in Digital (CDMA) mode.

Using the Digital Voice Dialing option requires that you first train the phone to recognize the name.

Training the Phone for Digital Voice Dialing

To train the phone for Digital Voice Dialing:

1. Press MENU to display the Main Menu.
2. Press 5 JKL for Voice Dial.
3. Press 1. for Record. The system provides voice prompts and screen displays to guide you through the recording process.
4. Respond to the prompt by saying the name you want to save. The phone stores the name as a first sample, and then prompts for the name again.
5. Respond to the prompt by repeating the name after the beep. The phone stores the name as a second sample, and then requests the phone number.
6. Enter the phone number (including prefixes) by pressing the digit keys.
7. To store the phone number, press OK. The name (if matched up to Phone Book) and number display, along with the notification "Recorded". The screen then returns to the Voice Dialing menu.

Tips on Recording Names

- Avoid recording names that are similar phonetically. If you record a similar name to the one already in memory, the phone requests another name.
- Avoid recording names in a noisy place.
- Speak clearly and naturally.
- The person who will use the phone should record the name. The phone does not recognize the name if the speaker's voice does not match the recorded voice.
- Avoid names that are very long or very short. It is recommended to contain 2 to 5 syllables.
- Digital Voice dial feature is available *only in Digital (CDMA) mode*.
- If this feature does not work properly, erase the name, and record with another name.
- It is recommended to practice several times to obtain best result.
- You can record up to 20 names. If you record more than 20, the phone announces 'Memory is full.'

Digital Voice Dialing Setup Options

Digital Voice Dialing is always active once you have trained the phone to accept Digital Voice Dialing entries and your phone is in Digital mode. To place calls using Digital Voice Dialing, simply press and hold (↑ ✳), and then say the name into the phone after you hear the prompt.

You can also initiate a Digital Voice Dialing call just by opening the flip, when you have selected this option through the Main Menu.

To change Digital Voice Dialing setup options:

1. Press (MENU) to display the Main Menu.
2. Press (5 JKL) for Voice Dial.
3. Press (4 GHI) for Set Active.
4. Press the scroll keys to toggle between options:
   - [✳] only: Enables Digital Voice Dialing by pressing and holding (↑ ✳).
   - [✳] / FLIP: Enables Digital Voice Dialing by pressing and holding (↑ ✳), or by opening the flip.
5. When the desired option displays, press (OK) to save the setting.

Using Digital Voice Dialing

Placing a Call

To place a call using Digital Voice Dialing:

1. To place the call, press and hold (↑ ✳), or open the flip, depending on the setting.
2. At the voice prompt, say the name into the phone.
   - If the phone recognizes the name, the phone attempts a connection.
   - If the phone does not recognize the name, the screen prompts for the name again.
   - If the phone is unable to recognize the name after two attempts, the message "Cannot Recognize Name. Please check name." displays. Try the call again later, or check the recorded name.

Reviewing Your Voice Dialing Entries

From time to time you may want to add, delete, or check your Digital Voice Dialing entries.

Here is how to do it:

1. Press (MENU) to display the Main Menu.
2. Press (5 JKL) for Voice Dial.
3. Press (2 ABC) for Review. A list of entries displays.
4. Press the digit key to select the desired entry, or press the scroll keys to scan entries. The recorded names play audibly as you scroll through the list.
5. Press (END) to return to Standby mode.

Erasing Digital Voice Dialing Entries

To erase an individual Digital Voice Dialing entry:

1. Press MENU to display the Main Menu.
2. Press 5 JKL for Voice Dial.
3. Press 2 ABC for Review. A list of entries displays.
4. Press the digit key to select the desired entry, or press the scroll keys to scan entries. The recorded names play audibly as you scroll through the list.
5. When the desired entry displays, press OK to select that entry.
6. Press OK to erase the selected entry.

To erase all Voice Dialing entries:

1. Press MENU to display the Main Menu.
2. Press 5 JKL for Voice Dial.
3. Press 3 DEF for Erase All.
4. Press OK to erase all Voice Dialing entries.

Security Options

Security Menu

Your phone provides many security options, including a user-programmable lock code, and call restriction features. To access the Security menu in Standby mode, press MENU, 0 OPER, and enter the lock code. Press the associated digit key to access one of the Security options.

You must enter the four digit lock code to see any options in this menu. The default lock code is 0000 or the last four digits of your phone number.

Lock Mode

Locking the phone restricts all outgoing calls except to:

- the most common emergency number. (911)
- the seven user programmable emergency numbers.

To place an outgoing call in Lock mode:

- To call an emergency number, enter the number and then press SEND.

To unlock the phone and place normal outgoing calls, press MENU to display the Lock Code screen, and then enter the lock code. When the Standby screen displays, place your call as you normally would.

Lock Code Setting

The default lock code for your phone is 0000 or the last four digits of your phone number depending on activation. You can enter a personal lock code, and then change the lock code as often as you like.

To enter a new lock code:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security and enter the Lock Code.
3. Press 3 DEF for Lock Code.
4. Enter a new, four-digit lock code by pressing the desired digit keys.
5. Press OK to save the new lock code.

Locking the Phone

To lock the phone:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security and enter the Lock Code.
3. Press 1. – for Lock.
4. Press the scroll keys to select an option:
   - OFF: The phone remains unlocked.
   - NOW: The phone locks immediately.
   - ON POWER-UP: The phone locks automatically at the next power-up.
5. Press OK to save the setting.

Call Restriction

Restricting Calls

Your phone provides the following Call Restriction options in the Security menu:

- Restrict Phone Book Use
- Restrict Incoming Calls
- Restrict Outgoing Calls

To restrict calls:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security and enter the Lock Code.
3. Press 2 ABC for Restrict.
4. Press the associated digit key to select an option:
   - Press 1. –' to restrict Phone Book use.
   - Press 2 ABC to restrict Incoming calls.
   - Press 3 DEF to restrict Outgoing calls.
5. Press the scroll keys to toggle between Unrestrict/Restrict.
6. Press OK to save the setting.

Priority Numbers

Seven priority numbers are programmed into your phone. The Security menu provides the option of changing these to numbers of your choice (up to 10 digits long).
You can place calls to priority numbers when the phone is locked or when "Restrict Outgoing Calls" is active.
Note: Default setting of priority numbers in your phone is determined by your service provider.

Storing Priority Numbers

To store priority numbers:

1. Press MENU to display the Main menu.
2. Press 0 OPER for Security and enter the Lock Code.
3. Press 4 GHI for Priority Numbers.
4. Press the 1~7 key to select a location for the priority number.
5. To change the setting, enter the new priority number by pressing the digit keys.
6. Press OK to save the number.

Dialing Priority Numbers in Lock Mode

Priority numbers can be dialed even if your phone is locked or if outgoing calls are restricted. You may want to program an important (or emergency) number(s) into a memory location so that you can access the number(s) using one or two touch turbo dialing. But remember that one/two touch turbo dialing do not work if the phone is locked or if outgoing calls are restricted.

To dial priority numbers in Lock mode:

1. Enter the priority number by pressing the digit keys.
2. Press SEND to place the call. If you dialed 911 or one of the seven stored Priority Numbers, the call will go through. If you dialed any other number (or mis-dialed), the display will read "Priority # Dialing Only", and you must press END and try your call again.

Other Options

PIN (Personal Identification Number)

If your system supplier provides this service and you have a PIN assigned by the system supplier, you can set your phone to send the PIN when you make a call. This feature prevents the phone from being used by unauthorized persons. For information on this service in detail, contact your service provider. Also your PIN is programmable and can be up to 24 digits.

To set the PIN function:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security and enter the Lock Code.
3. Press 5 JKL for PIN.
4. Press the corresponding digit key to select the desired option:
   - Press 1. –' for Send PIN, and then toggle between Prompt/Never.
   - Press 2 ABC for PIN Code, and then Enter a new PIN code by pressing the desired digit keys.
5. Press OK to save the setting.

Clear Memory

You can erase all numbers in the Phone Book. The screen displays "All ENTRIES ARE CLEARED."

To erase all numbers in the phone book:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security and enter the Lock Code.
3. Press 6 MNO for Clr Memory.
4. Press the corresponding key to select your option.
   - Press OK to erase.
   - Press CLR to cancel.

Hide Own Number

This feature prevents your phone number from being displayed on your phone. If you turn this feature on, the message "# Hidden" displays when 'My Phone #' function is accessed by pressing MENU, 4 GHI, 3 DEF.

To set the blocking:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security and enter the Lock code.
3. Press 7 PQRS for Hide My #.
4. Press the scroll keys to toggle between On/Off.
5. Press OK to save the setting.

Reset Phone

If you want to reset all of your phone's features to the manufacturer's defaults, you can do so with this feature.

Note: This feature erases the Phone Book entries, Call Logs, and SMS messages.

To reset the phone:

1. Press MENU to display the Main Menu.
2. Press 0 OPER for Security and enter the Lock Code.
3. Press 0 OPER for Reset Phone.
4. Press the corresponding key to select your option.
   - Press OK to reset.
   - Press CLR to cancel.

Message Services

Short Message Services and Voicemail*

Your phone receives voicemail notification, text messages, and pages. When the phone receives a message, an alert sounds, and a text notification displays. The message indicator (✉) remains on the screen until you read the pending text messages or until you listen to the voicemail notification messages.

When message memory reaches 75 percent capacity, the screen displays a text notification and a prompt to erase old messages. At 100 percent capacity, the screen displays a text notification and rejects additional incoming messages until you erase some of the stored messages.

The phone automatically adjusts the incoming message alert volume to the lowest setting when the phone is in Conversation mode.

Incoming voicemail notification and text messages can be received even when the phone is in Lock mode. To access a message, or to return a call other than an emergency number, enter the lock code.

* Short message services, voicemail, text messaging, and page messaging may not be available in your service area. Contact your service provider for availability of these services.

Reviewing Messages*

Your phone accepts incoming messages in both Standby and Conversation modes. When a new message arrives, an alert sounds, and the message header displays. The message header includes the type of message (Text, Page, Voicemail Notification) and the name/phone number, if available.

You can review the message upon notification or store the message for later review. The Messages menu provides options for reviewing the name/phone number of the sender, date/time stamp, priority, and the message.

Your phone can store up to 20 pages and text messages, depending on the length of the message. You can erase an individual message after reviewing it, or erase all stored messages at one time.

Reviewing Voicemail Messages

To review voicemail messages:

1. Press ✉ to display the Messages Menu.
2. Press 1. for Inbox. The number of new messages displays next to the associated message type in the menu.
3. Press 1. for Voicemail. The screen displays "Voicemail", the time, date, and the number of new, unread messages.
4. Press MENU for context-specific options:
   - Press 1. to Listen to voicemail messages.
   - Press 2 ABC to Reset the counter for voicemail messages, if desired.

Reviewing Page and Text Messages

To review page and text messages:

1. Press [Message] to display the Messages Menu.
2. Press [1. –'] for Inbox. The number of new messages displays next to the associated message type in the menu.
3. Press [2 ABC] for Page, or press [3 DEF] for Text. An indexed list of page or text messages displays. An exclamation point next to an entry indicates an urgent message. A check mark next to an entry indicates that you have read and stored the message.
4. Press the scroll keys to highlight a message, and then press [OK] to select the highlighted message for review. (You can also press the associated digit key to select a message by its entry number.)
5. When the message displays, press [# ↓] to review the message.
6. After reviewing the message, press [MENU] for context-specific options:
   - Press [1. –'] for Talk (to call the phone number).
   - Press [2 ABC] to Save the number (if there is no Phone Book match).
   - Press [3 DEF] to Erase the message.
   - Press [4 GHI] to review the Next message.
   - Press [5 JKL] to review the Previous message.
7. Press [CLR] to return to the previous screen.

Choosing Alert Type for Message Receiving

The phone alerts you when a message is received. You can choose how frequently this happens. The three options are: EVERY 2 MIN, OFF, ONCE.

To set the frequency:

1. Press [Message] to display the Message menu.
2. Press [1. –'] for Inbox.
3. Press [4 GHI] to select Alert.
4. Press the scroll keys until you find your desired alert type.
5. Press [OK] to save the setting.

Erasing Messages

You can erase all stored messages.

To erase messages:

1. Press [Message] to display the Message Menu.
2. Press [1. –'] for Inbox.
3. Press [5 JKL] for Erase All.
4. Press [OK] to confirm erasing, or press [CLR] to cancel.

Safety

For a variety of safety reasons, it is important to consider where you will be using your phone. When using your phone and its accessories, please follow these guidelines:

Compliance with Safety Standards

The SAMSUNG phone meets all standards and recommendations for the protection of the public from exposure to radio frequency (RF) electromagnetic energy established by governmental bodies and other qualified organizations. To reduce the risk of fire, electric shock, serious personal injury, or property damage, please follow these guidelines:

Driving

Using a wireless phone while driving is illegal in some states and countries. Know the laws and regulations for your area, and pull off the road and park if you need to make a call. If you must use the phone while driving, purchase and install the optional Hands-Free Car Kit.

Electronic Devices

Your wireless telephone is a radio transmitter and receiver. When the power is on, the phone receives and sends out RF energy. Most modern electronic equipment, such as equipment in hospitals and cars, contains an RF signal shield. RF energy may affect some inadequately shielded electronic equipment.

Turn off your phone in health care facilities, and always request permission before using the phone near medical equipment.

Consult the manufacturer of any personal medical devices, such as pacemakers and hearing aids, to determine if they are shielded adequately from external RF signals.

Aircraft

Turn off your phone before boarding any aircraft. The Federal Aviation Administration (FAA) requires that you have prior permission from the crew to use your phone while the plane is on the ground. FCC regulations prohibit using your phone while the plane is in the air. Do not use your phone at any time while traveling on board a plane.

Blasting Areas

Construction crews often use remote-control RF devices to set off explosives. To avoid interfering with blasting operations, turn off your phone when you are in a blasting area or in any area with signs posted that read "Turn off two-way radio."

Other Dangerous Areas

Turn off your phone in any area with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks, which could cause explosion or fire. Areas with a potentially explosive atmosphere may not always be clearly marked. These areas may include:

- Fueling areas, such as gas stations
- Below deck on boats
- Fuel or chemical transfer or storage facilities
- Areas where the air contains chemicals or particles such as grain, dust, or metal powders
- Any other area where you would normally be advised to turn off your vehicle engine

Do not transport or store flammable gas, liquid, or explosives in the compartment of a vehicle containing your phone or accessories.

Accessories

Batteries

Three types of Lithium Ion batteries are available for use with your SAMSUNG phone:

- Standard Battery (BTS41)
- Extended Battery (BTE41)
- Ultra - Extended Battery (BTL41)

Dual - Slot Desktop Charger (DTC61)

The Dual - Slot Desktop Charger charges the battery at your home or office.

Cigarette Lighter Adapter (CLC010)

The Cigarette Lighter Adapter charges your SAMSUNG phone in a vehicle while you drive and enables you to operate the phone from a vehicle cigarette lighter socket.

Travel Charger (TC20)

The Travel Charger plugs into a wall outlet and enables you to charge a single battery at your home or office or while traveling.

Hands-Free Car Kit (HFK41)

The Hands-Free Car Kit provides safety, freedom and convenience in your vehicle. (Kit includes Cradle and Microphone.) This kit supports voice dialing so that you need not key in frequently used numbers every time.

Headset (EMP20)

The Headset includes both the earpiece and microphone in a convenient, lightweight unit. The Headset supports voice dialing so that you don't even have to touch your phone. You can voice dial a number simply by pressing a button on the Headset.

Table 5: Battery Charging Times*

	Standard Battery	Extended Battery	Ultra-Extended Battery
Dual-Slot Desktop Charger (Front Slot)	3.0 hrs.	4.0 hrs.	6.0 hrs.
Travel Charger	3.5 hrs.	4.0 hrs.	6.0 hrs.
Hands-Free Car Kit	4.0 hrs.	6.0 hrs.	8.0 hrs.
Cigarette Lighter Adapter	4.0 hrs.	4.5 hrs.	7.5 hrs.

***Note:**

1. Charging times are longer in colder temperatures.
2. Battery requires longer to fully charge if the phone is turned on.

Appendix A

Display Messages

MAINTENANCE REQUIRED	The phone number is not registered in the network.
PHONE BOOK RESTRICTED	You have tried to access the memory while the phone is in the memory restricted mode.
MATCHING ENTRY NOT FOUND	The phone number you are trying to recall does not exist.
OUT OF ENTRY RANGE	The entry number you are trying to locate does not exist.
NO INCOMING CALL LOG	You have not received any incoming calls.
NO OUTGOING CALL LOG	You have not made any outgoing calls.
NO SERVICE	The phone is out of the service area.
INCOMING CALL IS RESTRICTED	While the phone is restricted, you have tried to answer a call.
OUTGOING CALL IS RESTRICTED	While the phone is restricted, you have tried to make a call.
CALL FAILED	The call cannot be completed even after automatic redialing.
Voice Dial Not Supported In Analog	You have tried to access Digital Voice Dial while the phone is in analog mode.

Glossary of Terms

Airtime - Actual time spent talking on the wireless phone. Most carriers bill customers based on how many minutes of airtime they use each month.

Antenna - A device for transmitting or receiving signals. The size and shape of an RF antenna is determined, in part, by the frequency of the signals used.

Base Station - The fixed radio transmitter/receiver that maintains communications with mobile radio telephones within a given area. (Typically called cell or cell site.)

CDMA - (Code Division Multiple Access) A spread-spectrum approach to digital transmission. With CDMA, each conversion is digitized and then tagged with a code. The mobile phone deciphers only a particular code to pick the right conversation off the air. The transmitted signal is just above noise level across the available bandwidth.

Channel - Communications signals transmit along paths called channels.

Codec - COmpression & DECompression.

Deactivation - The process of rendering a wireless phone inactive on the network.

DTMF - (Dual-Tone Multi-Frequency) You send DTMF signals when you enter numbers by pressing the digit keys.

EVRC - (Enhanced Variable Rate Codec) EVRC is a new global standard for compressing and decompressing voice signals. EVRC uses a lower bit rate (the number of bits sent per second) than existing CDMA vocoders, while providing significant improvements in voice quality. This technology enables your phone to provide superb voice quality while benefiting from the ability to process more cellular voice calls using less bandwidth than the voice codecs in CDMA networks today.

Frequency - A measure based on time, as one or more waves per second, in an electrical or lightwave information signal. A signal's frequency is stated in cycles-per-second or Hertz (Hz).

Hands-Free - A feature that permits a driver to use a wireless phone without lifting or holding the handset - an important safety feature for automobiles, tractors and most other motorized vehicles.

LCD - (Liquid Crystal Display) Commonly used to refer to the screen display on the wireless phone.

LED - (Light Emitting Diode) Commonly used to refer to a small light on the wireless phone or on the Desktop Charger. The LED illuminates on the phone to indicate an incoming call. The LED illuminates on the charger to indicate that battery charging is taking place.

NAM - (Number Assignment Module) North American cellular systems use a NAM which consists of customer information (such as phone number, system identifier, etc.).

Prepend - The addition of a prefix, such as an area code, to a phone number.

RF - Radio Frequency

Roaming - The ability to use a wireless phone to make and receive calls in places outside of the home service area.

Service Charge - The amount paid each month to receive wireless service.

SMS - (Short Message Services) The variety of messaging services available on the SAMSUNG phone, including voicemail, numeric paging and text messaging.

Standby Time - The amount of time a fully charged wireless portable or transportable phone can be on and idle without being in use. (See Talk Time.)

Talk Time - The length of time a person can talk on a portable or transportable wireless phone without recharging the battery.

Vocoder - Voice Coder. A device used to convert speech into digital signals.

Voicemail - A computerized answering service that answers a call, plays a greeting and records a message. Depending on the sophistication of the service, it can notify the subscriber, via a pager, of an incoming call or message. (Also called voice messaging.)

Wireless - Radio-based Systems that allow transmission of telephone or data signals through the air without a physical connection, such as a metal wire (copper) or fiber optic cable.

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